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TRI-SERVICE CHAMPUS STATISTICAL  
DATABASE PROJECT  
(TCSDP)



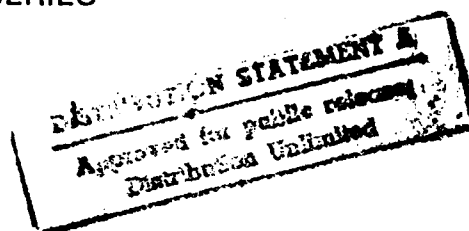
DETAILED ANALYSIS OF CHAMPUS  
PER CAPITA MENTAL HEALTH EXPENDITURES  
FOR BENEFICIARIES LESS THAN EIGHTEEN,  
HEALTH SERVICES COMMAND CATCHMENT AREAS  
FISCAL YEARS 1988-1993

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CR 94-001  
NOVEMBER 1993



UNITED STATES ARMY  
MEDICAL CENTER AND SCHOOL  
FORT SAM HOUSTON, TEXAS 78234

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DATABASE PROJECT  
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CR 94-001  
November 1993

UNITED STATES ARMY  
MEDICAL DEPARTMENT CENTER AND SCHOOL  
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\* \* \* \* \*

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DETAILED ANALYSIS OF CHAMPUS  
PER CAPITA MENTAL HEALTH EXPENDITURES  
FOR BENEFICIARIES LESS THAN EIGHTEEN,  
HEALTH SERVICES COMMAND CATCHMENT AREAS  
FISCAL YEARS 1988-1993

INTRODUCTION

This technical report presents the results of a longitudinal examination of CHAMPUS mental health per capita expenditures for eligible beneficiaries less than 18 years old in all Health Services Command (HSC) catchment areas. The overall study period was from October 1987 to June 1993.

In August 1989, the Army Medical Department contracted with the state of North Carolina to provide all mental health services to CHAMPUS-eligible beneficiaries less than 18 years of age, residing in the Fort Bragg catchment area. This report updates and expands two earlier analyses: 1) #CR91-C03 (Optenberg, S.A., April 1991, DTIC: AD A236626) which compared mental health per capita expenditures for eligible beneficiaries under age 18, between the demonstration project at Fort Bragg and two other catchment areas, Forts Stewart and Campbell; and 2) #RP92-006 (Optenberg, S.A. & Stein, C.R., April 1992, DTIC: A AD248785) which updated and expanded analysis to all HSC catchment areas. The current report extends the period of analysis by twenty-nine months over technical report #CR91-003, and by twenty-one months over report #RP92-006.

METHODS

Population data on eligible beneficiaries were obtained from the Defense Management Information System (DMIS) RAPS population module. All CHAMPUS data were derived from the Tri-Service CHAMPUS Statistical Database (TCSD). The two previous reports limited their analysis to institutional services and inpatient and ambulatory professional services claims. This report expands analysis by also including prescription and physician-administered drug claims. All mental health claims paid for eligible beneficiaries from October 1987 through September 1993 were retrieved from the TCSD. Data analysis was then limited to claims with care end-dates from October 1987 to June 1993 to adjust for care-date to claim-payment-date time lag. Before analysis, claims were adjusted upward to account for the fiscal intermediary claims-processing overhead charges. Clinical services and program overhead funds provided to the State of North Carolina for the Fort Bragg demonstration project were abstracted from data files at HSC's Office of Central Contracting. Before using this cost data in the current analysis, fund amounts provided through North Carolina to a subcontractor (Vanderbilt University) for program evaluation were subtracted.

After the above adjustments were made, CHAMPUS claims and demonstration project expenditures were combined and summarized to obtain monthly catchment area totals. The monthly mental health government expenditures were divided by the eligible beneficiary

population within each catchment area, and longitudinal trends were examined. Data were split into two periods of analysis: 1) pre-demonstration, October 1987 - July 1989; and 2) post-demonstration (i.e., after demonstration project initiation), August 1989 - June 1993. For each of the two periods, regression analysis was used to estimate the general trend in per capita rates of increase/decrease per month. Analysis was done independently for each catchment area, with two models (linear and quadratic) being considered, and the one best fitting the data was used. If no trend was exhibited, then no model was applied.

The effect of the demonstration project on the Fort Bragg catchment area eligible beneficiary per capita costs, the relative ranking of Fort Bragg to other catchment areas, and the comparative rate of increase in government per capita expenditures were examined in detail through comparison to all other Health Services Command catchment areas.

## RESULTS

In the period (October 1987 - July 1989) prior to the demonstration project at Fort Bragg, Health Services Command average mental health per capita expenditures for eligible beneficiaries under age 18 ranged from \$3.74K (Fort Ord) - \$42.63K (Brooke AMC) per 1000 beneficiaries (Table 1, p. 4). Fort Bragg averaged \$9.44K/1000 beneficiaries and ranked (where rank 1 = highest cost) in the bottom third (27 out of 37) of all HSC catchment areas in per capita average cost.

In September 1989, following the onset of the demonstration project, Fort Bragg's per capita expenditures had risen slightly to \$9.81K/1000 beneficiaries (rank: 23 of 37) (Table 2, p. 5). By September 1990, per capita expenditures had increased to \$35.62K/1000 beneficiaries (rank: 5 of 37). In September 1991, expenditures decreased to \$29.29K/1000 beneficiaries, but Fort Bragg ranked fourth in monthly expenditures per 1000 eligible beneficiaries. In September 1992, per capita expenditures decreased to \$20.89K/1000 beneficiaries (rank: 7 of 37), and in June 1993, the end of the analysis period of this report, expenditures increased to \$33.33K/1000 beneficiaries (rank: 2 of 35). (Note: For reporting purposes, two catchment areas -- Forts Dix and Eustis -- were transferred by June 1993 from HSC to the Air Force and Navy Coordinated Care offices, respectively.) Throughout the post-demonstration period, Brooke AMC continued to demonstrate the highest expenditures per 1000 eligible beneficiaries: costs increased to \$48.46K in September 1989, increased to \$60.35K by September 1991 and decreased to \$41.73K by June 1993.

Regression results are shown in Tables 3-4 (pre-demonstration) and Tables 5-6 (post-demonstration) (pp. 6-9). In Table 7 (p. 10) are listed the pre- and post-rates of increase/decrease per month in per capita costs for all catchment areas. Prior to the demonstration project, 25 out of 37 Health Services Command catchment areas demonstrated a positive monthly rate of increase in per capita expenditures. Although Fort Bragg showed a monthly rate of increase of \$139/1000 beneficiaries, it had a low ranking of only 24th in



magnitude of monthly increase, indicating the rate of increase was modest. By the mid-point of the post-demonstration period, six catchment areas continued to exhibit a positive monthly rate of increase, with Fort Bragg ranking first with a monthly rate of increase computed at \$495/1000 beneficiaries. However, by the end of the analysis period (January-June 1993), Fort Bragg's monthly per capita rate had stabilized.

When comparing the pre- and post-demonstration periods (based on mid-points), only six of 37 Health Services Command catchment areas demonstrated a pre- to post-demonstration net growth in monthly rate of per capita expenditures. The six catchment areas which showed a percent change increase were Fort Bragg (256%), U.S. Military Academy (162%), Fort Belvoir (100%), Letterman AMC (61%), Fort Carson (54%), and Fort Eustis (52%). In three catchment areas there was no change stated due to lack of trends in both periods. The remaining 28 catchment areas exhibited decreasing percentage changes in net rates (67% to 302% decrease). Although Brooke AMC had demonstrated the highest monthly rate of increase during the pre-demonstration period, by the mid-point of the demonstration project period, this rate of expenditure growth had decreased 131%.

#### SUMMARY

Prior to the demonstration project, Fort Bragg catchment area ranked only 27 out of 37 catchment areas in average per capita mental health expenditures for eligible beneficiaries less than age eighteen. By the end of the analysis period (June 1993), Fort Bragg ranked second out of 37 catchment areas (Table 2, p. 5).

When comparing estimated trends in per capita monthly expenditures, Fort Bragg exhibited the greatest pre- to post-demonstration period growth. The 256% rate of increase at Fort Bragg was 1.6 times greater than the next highest catchment area (162% at the U.S. Military Academy) (Table 7, p. 10). However, by January to June, 1993, the end of the analysis period, Fort Bragg's per capita rate had stabilized.

TABLE 1  
GOVERNMENT PSYCHIATRIC COSTS  
AVERAGE MONTHLY COST  
PER 1000 ELIGIBLE BENEFICIARIES L.T. 18 YEARS  
PRE-DEMO PERIOD (OCT 87 - JUL 89)  
HEALTH SERVICES COMMAND CATCHMENT AREAS

CATCHMENT AREA	AVG COST (000'S)	RANK (N=37)	MINIMUM (000'S)	MAXIMUM (000'S)
FOX AH REDSTONE ARSENAL	11.79	24	1.50	26.89
NOBLE AH FT MCCLELLAN	12.41	21	5.66	17.65
LYSTER AH FT RUCKER	12.21	22	2.87	25.57
BASSETT AH FT WAINWRIGHT	5.88	34	0.30	14.30
BLISS AH FT HUACHUCA	23.33	4	12.44	49.01
LETTERMAN AMC	11.94	23	3.68	23.64
HAYS AH FT ORD	3.74	37	0.63	6.93
FITZSIMONS AMC	19.83	9	9.11	39.12
USA HOSP FT CARSON	19.16	10	10.83	25.12
WALTER REED AMC	15.27	15	3.24	36.19
EISENHOWER AMC FT GORDON	18.42	12	9.57	25.96
MARTIN AH FT BENNING	8.88	28	5.37	12.47
USA HOSP FT STEWART	14.81	17	8.73	23.69
TRIPLER AMC	14.69	18	6.49	23.03
IRWIN AH FT RILEY	16.61	13	8.41	27.25
MUNSON AH FT LEAVENWORTH	20.59	8	7.50	40.05
BLANCHFIELD AH FT CAMPBELL	18.44	11	10.16	25.28
IRELAND AH FT KNOX	14.09	19	8.98	21.15
USA HOSP FT POLK	9.66	26	2.03	21.08
KIMBROUGH AH FT MEADE	13.47	20	6.35	17.83
CUTLER AH FT DEVENS	9.69	25	3.97	21.85
WOOD AH FT LEONARD WOOD	22.08	5	11.10	38.64
PATTERSON AH FT MONMOUTH	8.22	30	0.98	27.79
WALSON AH FT DIX	7.07	32	1.13	11.30
KELLER AH US MILITARY ACAD	7.69	31	1.10	23.50
WOMACK AH FT BRAGG	9.44	27	6.67	13.28
REYNOLDS AH FT SILL	21.87	6	11.03	34.32
MONCRIEF AH FT JACKSON	5.86	35	1.21	18.20
BEAUMONT AMC FT BLISS	16.31	14	6.46	31.50
BROOKE AMC FT SAM HOUSTON	42.63	1	17.37	65.08
DARNALL AH FT HOOD	27.54	3	13.93	40.26
MCDONALD AH FT EUSTIS	15.18	16	9.29	22.22
KENNER AH FT LEE	27.89	2	15.29	40.79
DEWITT AH FT BELVOIR	20.88	7	10.18	35.19
MADIGAN AMC FT LEWIS	4.06	36	0.75	7.23
WEED AH FT IRWIN	8.56	29	0.37	22.15
HAWLEY AH FT BENJAMIN HARRISON	6.90	33	1.22	13.18

TABLE 2  
GOVERNMENT PSYCHIATRIC MONTHLY COSTS  
PER 1000 ELIGIBLE BENEFICIARIES L.T. 18 YEARS  
SEP 89, 90, 91, 92, AND JUN 93 RANKINGS OF POST-DEMO PERIOD  
HEALTH SERVICES COMMAND CATCHMENT AREAS

CATCHMENT AREA	89/09 (000'S)	RANK (N=37)	90/09 (000'S)	RANK (N=37)	91/09 (000'S)	RANK (N=37)	92/09 (000'S)	RANK (N=37)	93/06 (000'S)	RANK (N=35)
FOX AH REDSTONE ARSENAL	15.62	10	3.96	35	19.55	9	14.60	11	11.80	12
NOBLE AH FT MCCLELLAN	13.94	15	6.98	29	8.25	28	24.80	4	5.45	24
LYSTER AH FT RUCKER	9.76	24	8.22	26	13.11	18	10.00	19	10.02	15
BASSETT AH FT WAINWRIGHT	6.04	31	3.97	34	4.38	34	5.68	29	2.02	35
BLISS AH FT HUACHUCA	22.30	5	29.62	7	31.51	3	25.41	3	7.75	20
LETTERMAN AMC	9.11	25	6.70	30	8.55	25	7.13	24	2.84	31
HAYS AH FT ORD	3.33	37	3.50	36	1.69	36	2.73	36	2.68	32
FITZSIMONS AMC	13.99	14	38.57	2	20.14	8	15.70	10	7.96	18
USA HOSP FT CARSON	13.19	19	14.35	11	14.34	16	10.18	18	9.09	16
WALTER REED AMC	13.52	18	8.15	27	7.96	29	10.80	16	12.21	10
EISENHOWER AMC FT GORDON	23.92	4	29.93	6	20.41	7	12.21	13	6.57	21
MARTIN AH FT BENNING	8.62	26	13.35	16	9.23	21	13.51	12	17.06	5
USA HOSP FT STEWART	12.74	21	13.91	12	11.56	20	11.82	14	14.46	8
TRIPLER AMC	13.89	16	12.27	21	5.89	31	5.56	30	3.83	28
IRWIN AH FT RILEY	14.11	13	13.57	14	14.49	14	7.97	22	8.12	17
MUNSON AH FT LEAVENWORTH	19.26	7	14.64	10	16.47	11	27.62	2	20.74	4
BLANCHFIELD AH FT CAMPBELL	18.33	8	13.49	15	9.16	22	1.51	37	2.91	30
IRELAND AH FT KNOX	16.35	9	12.86	19	16.44	12	16.42	8	6.54	23
USA HOSP FT POLK	15.59	11	11.15	24	12.10	19	4.63	34	2.28	34
KIMBROUGH AH FT MEADE	13.63	17	11.25	23	8.59	24	9.25	20	12.11	11
CUTLER AH FT DEVENS	7.88	28	7.57	28	8.35	27	9.11	21	6.55	22
WOOD AH FT LEONARD WOOD	15.42	12	24.04	9	29.11	5	3.78	35	10.80	14
PATTERSON AH FT MONMOUTH	5.24	32	6.11	31	2.08	35	5.82	28	4.01	26
WALSON AH FT DIX	4.99	33	2.81	37	7.19	30	5.39	31	<sup>b</sup>	<sup>b</sup>
KELLER AH US MILITARY ACAD	4.46	35	8.52	25	8.41	26	11.30	15	14.92	6
WOMACK AH FT BRAGG <sup>a</sup>	9.81	23	35.62	5	29.29	4	20.89	7	33.33	2
REYNOLDS AH FT SILL	12.99	20	13.63	13	15.40	13	6.41	26	2.54	33
MONCRIEF AH FT JACKSON	8.53	27	5.08	33	4.66	33	5.17	32	7.90	19
BEAUMONT AMC FT BLISS	21.55	6	27.07	8	24.74	6	16.39	9	11.24	13
BROOKE AMC FT SAM HOUSTON	48.46	1	45.15	1	60.35	1	33.11	1	41.73	1
DARNALL AH FT HOOD	30.60	2	35.70	4	37.24	2	23.58	5	29.80	3
MCDONALD AH FT EUSTIS	6.85	30	11.54	22	8.84	23	6.05	27	<sup>b</sup>	<sup>b</sup>
KENNER AH FT LEE	25.24	3	37.56	3	18.20	10	23.17	6	14.58	7
DEWITT AH FT BELVOIR	11.35	22	13.07	17	13.36	17	10.55	17	12.73	9
MADIGAN AMC FT LEWIS	4.68	34	5.75	32	5.52	32	4.66	33	4.43	25
WEED AH FT IRWIN	3.57	36	12.83	20	0.24	37	6.91	25	3.91	27
HAWLEY AH FT BENJAMIN HARRISON	7.16	29	13.04	18	14.49	15	7.27	23	2.98	29

Notes:

<sup>a</sup>Excludes additional \$3.6 million (8911-9306) to Vanderbilt University for demonstration project evaluation and \$157,515 to AMEDDC&S, D/HCS&A for data preparation/transfer.

<sup>b</sup>For reporting purposes, transferred from HSC to Air Force or Navy before 9306.

TABLE 3  
GOVERNMENT PSYCHIATRIC COSTS  
PER ELIGIBLE BENEFICIARY L.T. 18 YEARS  
BASED ON DATE OF CARE<sup>a</sup>  
FY 1988 THROUGH JUL 1989 BY MONTH/YEAR  
HEALTH SERVICES COMMAND CATCHMENT AREAS

REGRESSION RESULTS  
PRE-DEMO LINEAR MODEL

CATCHMENT AREA	N (MONTHS)	INTERCEPT	DATE	R <sup>2</sup>	P VALUE <sup>b</sup>
FOX AH REDSTONE ARSENAL	22	-162.35	0.0167	0.28	0.0113*
NOBLE AH FT MCCLELLAN	22	-95.89	0.0104	0.30	0.0088*
LYSTER AH FT RUCKER	22	-119.45	0.0126	0.17	0.0587*
BASSETT AH FT WAINWRIGHT	22	-87.43	0.0089	0.19	0.0435*
BLISS AH FT HUACHUCA	22	-253.04	0.0264	0.37	0.0028*
LETTERMAN AMC	22	103.32	-0.0087	0.09	0.1657
HAYS AH FT ORD	22	-6.47	0.0010	0.01	0.6428
FITZSIMONS AMC	22	-187.28	0.0198	0.28	0.0121*
USA HOSP FT CARSON	22	108.28	-0.0085	0.19	0.0450*
WALTER REED AMC	22	-339.77	0.0340	0.58	0.0001*
EISENHOWER AMC FT GORDON	22	-92.16	0.0106	0.22	0.0272*
MARTIN AH FT BENNING	22	-64.01	0.0070	0.45	0.0007
USA HOSP FT STEWART	22	-49.69	0.0062	0.09	0.1870
TRIPLER AMC	22	-58.80	0.0070	0.16	0.0682*
IRWIN AH FT RILEY	22	-183.93	0.0192	0.53	0.0001*
MUNSON AH FT LEAVENWORTH	22	-337.49	0.0343	0.53	0.0001*
BLANCHFIELD AH FT CAMPBELL	22	-78.93	0.0093	0.28	0.0111
IRELAND AH FT KNOX	22	-6.01	0.0019	0.01	0.5957
USA HOSP FT POLK	22	-213.44	0.0213	0.63	0.0001*
KIMBROUGH AH FT MEADE	22	-5.74	0.0018	0.01	0.5981
CUTLER AH FT DEVENS	22	-89.78	0.0095	0.16	0.0632
WOOD AH FT LEONARD WOOD	22	-35.43	0.0055	0.03	0.4729
PATTERSON AH FT MONMOUTH	22	-267.89	0.0264	0.50	0.0002*
WALSON AH FT DIX	22	-50.73	0.0055	0.12	0.1155
KELLER AH US MILITARY ACAD	22	119.84	-0.0107	0.15	0.0759*
WOMACK AH FT BRAGG <sup>c</sup>	22	-37.29	0.0045	0.24	0.0210*
REYNOLDS AH FT SILL	22	-76.45	0.0094	0.09	0.1669
MONCRIEF AH FT JACKSON	22	-124.42	0.0125	0.33	0.0049*
BEAUMONT AMC FT BLISS	22	-153.08	0.0162	0.25	0.0176*
BROOKE AMC FT SAM HOUSTON	22	-565.15	0.0581	0.72	0.0001
DARNALL AH FT HOOD	22	-326.29	0.0338	0.70	0.0001*
MCDONALD AH FT EUSTIS	22	143.57	-0.0123	0.39	0.0018*
KENNER AH FT LEE	22	-104.52	0.0127	0.12	0.1211
DEWITT AH FT BELVOIR	22	324.19	-0.0290	0.52	0.0002*
MADIGAN AMC FT LEWIS	22	-51.39	0.0053	0.45	0.0006*
WEED AH FT IRWIN	22	99.43	-0.0087	0.07	0.2445
HAWLEY AH FT BENJAMIN HARRISON	22	6.88	0.0000	0.00	0.9996

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time. Pre-Demo period was 8710-8907.

<sup>b</sup>\* = Best model for given catchment area, significant at Prob. l.e. .10.

<sup>c</sup>Excludes additional \$3.6 million (8911-9306) to Vanderbilt University for demonstration project evaluation and \$157,515 to AMEDDC&S, D/HCS&A for data preparation/transfer.

TABLE 4  
GOVERNMENT PSYCHIATRIC COSTS  
PER ELIGIBLE BENEFICIARY L.T. 18 YEARS  
BASED ON DATE OF CARE<sup>a</sup>  
FY 1988 THROUGH JUL 1989 BY MONTH/YEAR  
HEALTH SERVICES COMMAND CATCHMENT AREAS

REGRESSION RESULTS  
PRE-DEMO QUADRATIC MODEL

CATCHMENT AREA	N	INTERCEPT	DATE	(DATE) <sup>2</sup>	R <sup>2</sup>	P VALUE <sup>b</sup>
(MONTHS)						
FOX AH REDSTONE ARSENAL	22	-1474.45	0.2677	-0.00001	0.28	0.0416
NOBLE AH FT MCCLELLAN	22	-2036.58	0.3817	-0.00002	0.32	0.0248
LYSTER AH FT RUCKER	22	4580.35	-0.8868	0.00004	0.22	0.0888
BASSETT AH FT WAINWRIGHT	22	-2270.56	0.4267	-0.00002	0.22	0.0985
BLISS AH FT HUACHUCA	22	-1568.07	0.2781	-0.00001	0.37	0.0127
LETTERMAN AMC	22	-7018.57	1.3541	-0.00007	0.25	0.0669*
HAYS AH FT ORD	22	1233.38	-0.2363	0.00001	0.05	0.5862
FITZSIMONS AMC	22	4686.49	-0.9129	0.00004	0.32	0.0266
USA HOSP FT CARSON	22	690.51	-0.1199	0.000005	0.19	0.1379
WALTER REED AMC	22	-2552.04	0.4573	-0.00002	0.59	0.0002
EISENHOWER AMC FT GORDON	22	283.62	-0.0613	0.000003	0.22	0.0922
MARTIN AH FT BENNING	22	-2559.43	0.4845	-0.00002	0.59	0.0002*
USA HOSP FT STEWART	22	517.47	-0.1024	0.000005	0.09	0.4205
TRIPLER AMC	22	-1000.97	0.1873	-0.000009	0.16	0.1831
IRWIN AH FT RILEY	22	-536.03	0.0866	-0.000003	0.53	0.0008
MUNSON AH FT LEAVENWORTH	22	613.90	-0.1478	0.000009	0.53	0.0007
BLANCHFIELD AH FT CAMPBELL	22	-5654.47	1.0763	-0.00005	0.53	0.0008*
IRELAND AH FT KNOX	22	918.85	-0.1751	0.000008	0.02	0.8054
USA HOSP FT POLK	22	36.62	-0.0265	0.000002	0.63	0.0001
KIMBROUGH AH FT MEADE	22	-5075.21	0.9720	-0.00005	0.28	0.0439*
CUTLER AH FT DEVENS	22	-5849.90	1.1118	-0.00005	0.31	0.0298*
WOOD AH FT LEONARD WOOD	22	6896.98	-1.3211	0.00006	0.13	0.2710
PATTERSON AH FT MONMOUTH	22	1507.67	-0.3134	0.00002	0.50	0.0013
WALSON AH FT DIX	22	-4996.95	0.9521	-0.00005	0.36	0.0154*
KELLER AH US MILITARY ACAD	22	-2977.68	0.5820	-0.00003	0.18	0.1521
WOMACK AH FT BRAGG <sup>c</sup>	22	-1104.90	0.2088	-0.00001	0.27	0.0488
REYNOLDS AH FT SILL	22	-12880.00	2.4596	-0.00012	0.52	0.0009*
MONCRIEF AH FT JACKSON	22	-1386.58	0.2540	-0.00001	0.34	0.0189
BEAUMONT AMC FT BLISS	22	5856.07	-1.1337	0.00005	0.34	0.0204
BROOKE AMC FT SAM HOUSTON	22	-12837.00	2.4065	-0.00011	0.80	0.0001*
DARNALL AH FT HOOD	22	-1008.07	0.1643	-0.000006	0.70	0.0001
MCDONALD AH FT EUSTIS	22	-2595.78	0.5119	-0.00003	0.44	0.0040
KENNER AH FT LEE	22	-4032.04	0.7643	-0.00004	0.14	0.2297
DEWITT AH FT BELVOIR	22	-6211.70	1.2217	-0.00006	0.58	0.0002
MADIGAN AMC FT LEWIS	22	-1386.72	0.2608	-0.00001	0.52	0.0009
WEED AH FT IRWIN	22	-112.42	0.0319	-0.000002	0.07	0.5166
HAWLEY AH FT BENJAMIN HARRISON	22	-3303.10	0.6334	-0.00003	0.08	0.4719

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time. Pre-Demo period was 8710-8907.

<sup>b</sup>\* = Best model for given catchment area, significant at Prob. l.e. .10.

<sup>c</sup>Excludes additional \$3.6 million (8911-9306) to Vanderbilt University for demonstration project evaluation and \$157,515 to AMEDDC&S, D/HCS&A for data preparation/transfer.

TABLE 5  
GOVERNMENT PSYCHIATRIC COSTS  
PER ELIGIBLE BENEFICIARY L.T. 18 YEARS  
BASED ON DATE OF CARE<sup>a</sup>  
AUG 1989 THROUGH JUN 1993 BY MONTH/YEAR  
HEALTH SERVICES COMMAND CATCHMENT AREAS

REGRESSION RESULTS  
POST-DEMO LINEAR MODEL

CATCHMENT AREA	N (MONTHS)	INTERCEPT	DATE	R <sup>2</sup>	P VALUE <sup>b</sup>
FOX AH REDSTONE ARSENAL	47	53.34	-0.0035	0.06	0.1003*
NOBLE AH FT MCCLELLAN	47	6.07	0.0007	0.003	0.7180
LYSTER AH FT RUCKER	47	95.50	-0.0072	0.31	0.0001*
BASSETT AH FT WAINWRIGHT	47	8.64	-0.0002	0.001	0.8446
BLISS AH FT HUACHUCA	47	106.22	-0.0065	0.15	0.0079
LETTERMAN AMC	47	45.12	-0.0034	0.28	0.0001*
HAYS AH FT ORD	47	12.41	-0.0009	0.13	0.0114*
FITZSIMONS AMC	47	270.03	-0.0212	0.59	0.0001
USA HOSP FT CARSON	47	60.22	-0.0039	0.16	0.0059*
WALTER REED AMC	47	29.16	-0.0017	0.07	0.0835*
EISENHOWER AMC FT GORDON	47	157.66	-0.0119	0.44	0.0001*
MARTIN AH FT BENNING	47	-12.91	0.0024	0.08	0.0556
USA HOSP FT STEWART	47	55.01	-0.0034	0.07	0.0647*
TRIPLER AMC	47	131.47	-0.0105	0.76	0.0001*
IRWIN AH FT RILEY	47	86.21	-0.0061	0.20	0.0018
MUNSON AH FT LEAVENWORTH	47	-20.30	0.0039	0.06	0.0862
BLANCHFIELD AH FT CAMPBELL	47	217.74	-0.0180	0.84	0.0001*
IRELAND AH FT KNOX	47	25.66	-0.0008	0.01	0.5308
USA HOSP FT POLK	47	93.04	-0.0072	0.38	0.0001*
KIMBROUGH AH FT MEADE	47	54.33	-0.0037	0.25	0.0004
CUTLER AH FT DEVENS	47	8.06	0.00004	0.00	0.9699
WOOD AH FT LEONARD WOOD	47	166.80	-0.0126	0.38	0.0001
PATTERSON AH FT MONMOUTH	47	5.02	0.00006	0.0001	0.9588
WALSON AH FT DIX <sup>c</sup>	38	43.50	-0.0033	0.13	0.0274*
KELLER AH US MILITARY ACAD	47	-67.54	0.0065	0.52	0.0001
WOMACK AH FT BRAGG <sup>d</sup>	47	-163.12	0.0165	0.55	0.0001
REYNOLDS AH FT SILL	47	155.63	-0.0124	0.64	0.0001
MONCRIEF AH FT JACKSON	47	-0.97	0.0008	0.01	0.4162
BEAUMONT AMC FT BLISS	47	159.59	-0.0118	0.41	0.0001
BROOKE AMC FT SAM HOUSTON	47	250.76	-0.0175	0.26	0.0003
DARNALL AH FT HOOD	47	153.14	-0.0102	0.23	0.0006
MCDONALD AH FT EUSTIS <sup>c</sup>	41	39.38	-0.0027	0.10	0.0465
KENNER AH FT LEE	47	52.31	-0.0025	0.03	0.2091
DEWITT AH FT BELVOIR	47	3.17	0.0009	0.02	0.3061
MADIGAN AMC FT LEWIS	47	26.67	-0.0018	0.20	0.0014
WEED AH FT IRWIN	47	26.85	-0.0019	0.02	0.3673
HAWLEY AH FT BENJAMIN HARRISON	47	16.88	-0.0005	0.001	0.8082

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time. Post-Demo period was 8908-9306.

<sup>b</sup>\* = Best model for given catchment area, significant at Prob. l.e. .10.

<sup>c</sup>For reporting purposes, transferred from HSC to Air Force or Navy before 9306.

<sup>d</sup>Excludes additional \$3.6 million (8911-9306) to Vanderbilt University for demonstration project evaluation and \$157,515 to AMEDDC&S, D/HCS&A for data preparation/transfer.

TABLE 6  
GOVERNMENT PSYCHIATRIC COSTS  
PER ELIGIBLE BENEFICIARY L.T. 18 YEARS  
BASED ON DATE OF CARE<sup>a</sup>  
AUG 1989 THROUGH JUN 1993 BY MONTH/YEAR  
HEALTH SERVICES COMMAND CATCHMENT AREAS

REGRESSION RESULTS  
POST-DEMO QUADRATIC MODEL

CATCHMENT AREA	N	INTERCEPT	DATE	(DATE) <sup>2</sup>	R <sup>2</sup>	P VALUE <sup>b</sup>
	(MONTHS)					
FOX AH REDSTONE ARSENAL	47	-754.36	0.1371	-0.000006	0.08	0.1460
NOBLE AH FT MCCLELLAN	47	-48.66	0.0102	-0.0000004	0.003	0.9343
LYSTER AH FT RUCKER	47	-167.15	0.0385	-0.000002	0.31	0.0003
BASSETT AH FT WAINWRIGHT	47	-128.64	0.0237	-0.000001	0.003	0.9335
BLISS AH FT HUACHUCA	47	-3704.98	0.6568	-0.00003	0.54	0.0001*
LETTERMAN AMC	47	61.08	-0.0062	0.0000001	0.28	0.0008
HAYS AH FT ORD	47	70.42	-0.0110	0.0000004	0.14	0.0380
FITZSIMONS AMC	47	-2217.78	0.4118	-0.00002	0.65	0.0001*
USA HOSP FT CARSON	47	-487.36	0.0914	-0.000004	0.18	0.0128
WALTER REED AMC	47	452.05	-0.0753	0.000003	0.10	0.1101
EISENHOWER AMC FT GORDON	47	-719.74	0.1408	-0.000007	0.46	0.0001
MARTIN AH FT BENNING	47	-759.88	0.1324	-0.000006	0.14	0.0378*
USA HOSP FT STEWART	47	-842.19	0.1528	-0.000007	0.11	0.0687
TRIPLER AMC	47	564.70	-0.0859	0.000003	0.77	0.0001
IRWIN AH FT RILEY	47	-1721.13	0.3085	-0.00001	0.33	0.0001*
MUNSON AH FT LEAVENWORTH	47	2053.31	-0.3570	0.00002	0.21	0.0063*
BLANCHFIELD AH FT CAMPBELL	47	646.10	-0.0925	0.000003	0.85	0.0001
IRELAND AH FT KNOX	47	-831.81	0.1484	-0.000006	0.09	0.1359
USA HOSP FT POLK	47	-639.97	0.1204	-0.000006	0.42	0.0001
KIMBROUGH AH FT MEADE	47	656.00	-0.1084	0.000005	0.30	0.0004*
CUTLER AH FT DEVENS	47	-1128.61	0.1979	-0.000009	0.19	0.0100*
WOOD AH FT LEONARD WOOD	47	-4005.35	0.7135	-0.00003	0.70	0.0001*
PATTERSON AH FT MONMOUTH	47	1201.50	-0.2082	0.000009	0.20	0.0075*
WALSON AH FT DIX <sup>b</sup>	38	-810.31	0.1470	-0.000007	0.17	0.0355
KELLER AH US MILITARY ACAD	47	602.99	-0.1102	0.000005	0.56	0.0001*
WOMACK AH FT BRAGG <sup>c</sup>	47	-2511.27	0.4252	-0.00002	0.64	0.0001*
REYNOLDS AH FT SILL	47	-1376.16	0.2542	-0.00001	0.72	0.0001*
MONCRIEF AH FT JACKSON	47	945.31	-0.1639	0.000007	0.17	0.0157*
BEAUMONT AMC FT BLISS	47	-3117.15	0.5586	-0.00002	0.66	0.0001*
BROOKE AMC FT SAM HOUSTON	47	-2757.76	0.5061	-0.00002	0.31	0.0003*
DARNALL AH FT HOOD	47	-2613.80	0.4714	-0.00002	0.37	0.0001*
MCDONALD AH FT EUSTIS <sup>b</sup>	41	-1974.21	0.3505	-0.00002	0.44	0.0001*
KENNER AH FT LEE	47	-721.53	0.1322	-0.000006	0.06	0.2458
DEWITT AH FT BELVOIR	47	-131.48	0.0243	-0.000001	0.03	0.5397
MADIGAN AMC FT LEWIS	47	-681.25	0.1214	-0.000005	0.45	0.0001*
WEED AH FT IRWIN	47	-191.35	0.0361	-0.000002	0.02	0.6411
HAWLEY AH FT BENJAMIN HARRISON	47	-2512.78	0.4398	-0.00002	0.31	0.0003*

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time. Post-Demo period was 8908-9306.

<sup>b</sup>\* = Best model for given catchment area, significant at Prob. l.e. .10.

<sup>c</sup>For reporting purposes, transferred from HSC to Air Force or Navy before 9306.

<sup>d</sup>Excludes additional \$3.6 million (8911-9306) to Vanderbilt University for demonstration project evaluation and \$157,515 to AMEDDC&S, D/HCS&A for data preparation/transfer.

TABLE 7  
RATE OF INCREASE/DECREASE PER MONTH  
OF GOVERNMENT PSYCHIATRIC COSTS  
HEALTH SERVICES COMMAND CATCHMENT AREAS<sup>a, b</sup>

(\$ PER 1000 ELIGIBLE BENEFICIARIES L.T. 18 YEARS)

CATCHMENT AREA	PRE-DEMO <sup>c</sup> (=< 8907)		POST DEMO <sup>c</sup> (> 8907)		PRE->POST % CHANGE AT MID POINTS <sup>d</sup>
	MID POINT (8808-8809)	RANK (N=37)	MID POINT (9107-9108)	RANK (N=37)	
FOX AH REDSTONE ARSENAL	+ 516 L	10	- 108 L	22	121% DECREASE
NOBLE AH FT MCCLELLAN	+ 321 L	15	NO TREND	7	100% DECREASE <sup>g</sup>
LYSTER AH FT RUCKER	+ 390 L	12	- 222 L	26	157% DECREASE
BASSETT AH FT WAINWRIGHT	+ 277 L	19	NO TREND	7	100% DECREASE <sup>g</sup>
BLISS AH FT HUACHUCA	+ 819 L	5	- 228 Q	28	128% DECREASE
LETTERMAN AMC	- 274 Q	34	- 106 L	20	61% INCREASE
HAYS AH FT ORD	NO TREND	26	- 28 L	14	100% DECREASE <sup>g</sup>
FITZSIMONS AMC	+ 614 L	8	- 674 Q	37	210% DECREASE
USA HOSP FT CARSON	- 264 L	33	- 122 L	23	54% INCREASE
WALTER REED AMC	+1053 L	3	- 54 L	16	105% DECREASE
EISENHOWER AMC FT GORDON	+ 328 L	14	- 369 L	32	213% DECREASE
MARTIN AH FT BENNING	+ 215 Q	21	+ 70 Q	4	67% DECREASE
USA HOSP FT STEWART	NO TREND	26	- 104 L	19	100% DECREASE <sup>g</sup>
TRIPLER AMC	+ 218 L	20	- 327 L	29	250% DECREASE
IRWIN AH FT RILEY	+ 595 L	9	- 200 Q	25	134% DECREASE
MUNSON AH FT LEAVENWORTH	+1062 L	2	+ 134 Q	3	87% DECREASE
BLANCHFIELD AH FT CAMPBELL	+ 286 Q	17	- 558 L	36	295% DECREASE
IRELAND AH FT KNOX	NO TREND	26	NO TREND	7	NO CHANGE
USA HOSP FT POLK	+ 662 L	7	- 223 L	27	134% DECREASE
KIMBROUGH AH FT MEADE	+ 55 Q	25	- 111 Q	22	302% DECREASE
CUTLER AH FT DEVENS	+ 292 Q	16	- 6 Q	13	102% DECREASE
WOOD AH FT LEONARD WOOD	NO TREND	26	- 420 Q	35	100% DECREASE <sup>g</sup>
PATTERSON AH FT MONMOUTH	+ 819 L	5	+ 10 Q	6	99% DECREASE
WALSON AH FT DIX	+ 169 Q	22	- 102 L	18	160% DECREASE
KELLER AH US MILITARY ACAD	- 333 L	35	+ 205 Q	2	162% INCREASE
WOMACK AH FT BRAGG <sup>e</sup>	+ 139 L	24	+ 495 <sup>f</sup> Q	1	256% INCREASE
REYNOLDS AH FT SILL	+ 286 Q	17	- 394 Q	34	238% DECREASE
MONCRIEF AH FT JACKSON	+ 386 L	13	+ 31 Q	5	92% DECREASE
BEAUMONT AMC FT BLISS	+ 502 L	11	- 387 Q	33	177% DECREASE
BROOKE AMC FT SAM HOUSTON	+1797 Q	1	-563 Q	30	131% DECREASE
DARNALL AH FT HOOD	+1049 L	4	-334 Q	31	132% DECREASE
MCDONALD AH FT EUSTIS	- 381 L	36	- 184 Q	24	52% INCREASE
KENNER AH FT LEE	NO TREND	26	NO TREND	7	NO CHANGE
DEWITT AH FT BELVOIR	- 899 L	37	NO TREND	7	100% INCREASE <sup>g</sup>
MADIGAN AMC FT LEWIS	+ 164 L	23	- 61 Q	17	137% DECREASE
WEED AH FT IRWIN	NO TREND	26	NO TREND	7	NO CHANGE
HAWLEY AH FT BENJAMIN HARRISON	NO TREND	26	- 31 Q	15	100% DECREASE <sup>g</sup>

Notes:

<sup>a</sup>All claims with 8710-9309 payment dates were extracted; analysis was limited to 8710-9306 care end dates to account for care-date payment-date lag time.

<sup>b</sup>Facilities with a Pre- to Post-Demo rate of change increase are highlighted.

<sup>c</sup>Based on model with best fit: L = linear model, Q = quadratic model. If "no trend", then no model was used. In Pre-Demo period seven "no trend" catchment areas have rank 26; in Post-Demo period six have rank 7.

<sup>d</sup>Represents the % of change from Pre-Demo to Post-Demo mid-point rate. "No change" shown if neither pre- nor post-periods showed trends.

<sup>e</sup>Excludes additional \$3.6 million (8911-9306) to Vanderbilt University for demonstration project evaluation and \$157,515 to AMEDDC&S, D/HCS&A for data preparation/transfer.

<sup>f</sup>At the end of the study period (9306), Ft. Bragg monthly rate of increase had declined.

<sup>g</sup>Zero rate of increase/decrease used for single "no trend" periods when finding % change.



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 Commander, U.S. Army Medical Department Activity, Fort Irwin, CA  
 92310-5065 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Jackson, SC  
 29207-5720 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Knox, KY  
 40121-5520 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Leavenworth,  
 KS 66027-5400 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Lee, VA  
 23801-5260 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Leonard  
 Wood, MO 65473-5700 (1)  
 Commander, U.S. Army Medical Department Activity, Fort McClellan,  
 AL 36205-5083 (1)  
 Commander, U.S. Army Medical Department Activity, Fort George G.  
 Meade, MD 20755-5800 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Monmouth, NJ  
 07703-5000 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Ord, CA  
 93941-5800 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Polk, LA  
 71459-6000 (1)  
 Commander, U.S. Army Medical Department Activity, Presidio of SF,  
 CA 94129-6700 (1)  
 Commander, U.S. Army Medical Department Activity, Redstone Arsenal,  
 AL 35809-7000 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Riley, KS  
 66442-5036 (1)  
 Commander, U.S. Army Aeromedical Center, Fort Rucker, AL  
 36362-5333 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Sill, OK  
 73503-6300 (1)  
 Commander, U.S. Army Medical Department Activity, Fort Stewart, GA  
 31314-5300 (1)

Commander, U.S. Army Medical Department Activity, Alaska, Fort  
 Wainwright, AK 99703-7300 (1)  
 Commander, U.S. Army Medical Department Activity, West Point, NY  
 10996-1197 (1)  
 Commander, USAF Academy Hospital, 4102 Pinon Drive, USAF Academy,  
 CO 80840-4000 (1)  
 Director, Coordinated Care, William Beaumont Army Medical Center,  
 El Paso, TX 79920-5001 (1)  
 Director, Coordinated Care, Brooke Army Medical Center, Fort Sam  
 Houston, TX 78234-6200 (1)  
 Director, Coordinated Care, Dwight David Eisenhower Army Medical  
 Center, Fort Gordon, GA 30905-5650 (1)  
 Director, Coordinated Care, Fitzsimons Army Medical Center,  
 Aurora, CO 80045-5000 (1)  
 Director, Coordinated Care, Madigan Army Medical Center, Tacoma,  
 WA 98431-5001 (1)  
 Director, Coordinated Care, Tripler Army Medical Center, TAMC, HI  
 96859-5000 (1)  
 Director, Coordinated Care, Walter Reed Army Medical Center,  
 Washington, DC 20307-5001 (1)  
 Director, Coordinated Care, Womack Army Medical Center, Fort  
 Bragg, NC 28307-5000 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 Fort Belvoir, VA 22060-5141 (1)  
 Director, Coordinated Care, Hawley Army Community Hospital, Fort  
 Benjamin Harrison, IN 46216-7000 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 Fort Benning, GA 31905-6100 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 Fort Campbell, KY 42223-1498 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 Fort Carson, CO 80913-5101 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 Fort Devens, MA 01433-6401 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 Fort Drum, NY 13602-5004 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 Fort Hood, TX 76544-5063 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 Fort Huachuca, AZ 85613-7040 (1)  
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 Fort McClellan, AL 36205-5083 (1)

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 Fort Monmouth, NJ 07703-5000 (1)  
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 Fort Polk, LA 71459-6000 (1)  
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 Presido of SF, CA 94129-6700 (1)  
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 Fort Stewart, GA 31314-5300 (1)  
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 Alaska, Fort Wainwright, AK 99703-7300 (1)  
 Director, Coordinated Care, U.S. Army Medical Department Activity,  
 West Point, NY 10996-1197 (1)  
 HQ USAFA/SGAM, ATTN: MS Linda Davis, 4102 Pinon Drive - Suite  
 100, USAF Academy, CO 80840-4000 (1)  
 Center for Mental Health Studies, Vanderbilt University, ATTN:  
 Leonard Bickman, Ph.D., Box 163, Peabody, Nashville,  
 TN 37203 (1)  
 North Carolina Department of Human Resources, Division of Mental  
 Health, Developmental Disabilities and Substance Abuse Services,  
 ATTN: Lenore Behar, Ph.D., 325 N. Salisbury St., Raleigh,  
 NC 27603 (1)  
 Professor Asha S. Kapadia, The University of Texas, Health Science  
 Center at Houston, 1200 Herman Pressler, P.O. Box 20186, Houston,  
 TX 77225